Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Previously Presented) A Pt-based bulk-solidifying amorphous alloy according to the formula $Pt_aCo_bCu_cNi_dP_e$, wherein a is from about 39 to about 50 atomic percentage, b is from about 0 to 15 atomic percent, c is from about 12 to about 35 atomic percentage, d is from 0 to 15 atomic percent, and e is from about 17 to about 29 atomic percent, wherein the sum of b and d is greater than 2 atomic percent, and wherein Pt comprises at least 75 percent of the Pt-based alloy by weight.
- 2. (Previously Presented) The Pt-based bulk-solidifying amorphous alloy as described in claim 1, a is from about 41 to about 47 atomic percentage, b is from about 0 to 8 atomic percent, c is from about 12 to about 16 atomic percentage, d is from 0 to 13 atomic percent, and e is from about 19 to about 29 atomic percent.
- 3. (Previously Presented) The Pt-based bulk-solidifying amorphous alloy as described in claim 1, wherein d is 0.

4. (Cancelled)

5. (Currently Amended) The Pt-based bulk-solidifying amorphous alloy as described in claim 1, further comprising Pd, wherein where the total content of Pd and Pt in the alloy is less than about 40 atomic percent the ratio of Pd to Pt is up to 4, where the total content of Pd and Pt is between about 40 to about 50 atomic percent the ratio

of Pd to Pt is up to 6, and where the total content of Pd and Pt is greater than 50 atomic percent the ratio of Pd to Pt is up to 8.

- 6. (Previously Presented) The Pt-based bulk-solidifying amorphous alloy as described in claim 1, wherein the ratio of Cu to the sum total of Ni and Co is in the range of about 0 to 4.
 - 7. (Cancelled)
- 8. (Previously Presented) The Pt-based bulk-solidifying amorphous alloy as described in claim 1, further comprising Si where the ratio of Si to P is from about 0 to 1.

9. - 11. (Cancelled)

- 12. (Currently Amended) The Pt-based bulk-solidifying amorphous alloy as described in claim 1, further comprising about 5 atomic percent of or less of an element selected from the group consisting of Ge, Ga, Al, Sn, Sb, and a mixture thereof.
- 13. (Previously Presented) A Pt-based bulk-solidifying amorphous alloy according to the formula $Pt_aCo_bCu_cNi_dP_e$, wherein a is from about 54 to about 64 atomic percentage, b is from about 0 to 8 atomic percent, c is from about 9 to about 20 atomic percentage, d is from 0 to 12 atomic percent, and e is from about 17 to about 24 atomic percent, wherein the sum of b and d is greater than 2 atomic percent, and wherein Pt comprises at least 85 percent of the Pt-based alloy by weight.
- 14. (Previously Presented) The Pt-based bulk-solidifying amorphous alloy as described in claim 13, a is from about 56 to about 62 atomic percentage, b is from about 0 to 5 atomic percent, c is from about 12 to about 16 atomic percentage, d is from 2 to 6 atomic percent, and e is from about 19 to about 23 atomic percent.

15. (Previously Presented) The Pt-based <u>bulk-solidifying amorphous</u> alloy as described in claim 13, wherein d is 0.

16. (Cancelled)

17. (Previously Presented) A Pt-based bulk-solidifying amorphous alloy according to the formula (Pt,Pd)_aCo_bCu_cNi_dP_e, wherein a is from about 20 to about 65 atomic percentage, b is from about 0 to 8 atomic percent, c is from about 9 to about 20 atomic percentage, d is from 0 to 12 atomic percent, and e is from about 17 to about 24 atomic percent, wherein the sum of b and d is greater than 2 atomic percent, and wherein Pt comprises at least 85 percent of the Pt-based alloy by weight,

wherein the total content of Pd and Pt in the alloy is less than about 40 atomic percent the ratio of Pd to Pt is up to 4, where the total content of Pd and Pt is between about 40 to about 50 atomic percent the ratio of Pd to Pt is up to 6, and where the total content of Pd and Pt is greater than 50 atomic percent the ratio of Pd to Pt is up to 8.

18. (Previously Presented) The Pt-based bulk-solidifying amorphous alloy as described in claim 13, wherein the ratio of Cu to the sum total of Ni and Co is in the range of about 0 to 4.

19. (Cancelled)

20. (Previously Presented) The Pt-based bulk-solidifying amorphous alloy as described in claim 13, further comprising Si where the ratio of Si to P is from about 0 to 1.

21. - 23. (Cancelled)

- 24. (Currently Amended) The Pt-based bulk-solidifying amorphous alloy as described in claim 13, further comprising about 5 atomic percent [[of]]or less of an element selected from the group consisting of Ge, Ga, Al, Sn, Sb, and a mixture thereof.
- 25. (Currently Amended) A Pt-based bulk-solidifying amorphous_alloy according to the formula:

 $(Pt,Pd)_{1-x}PGM_x)_a((Cu,Co,Ni)_{1-y}TM_y)_b(P,Si)_{1-z}OM_z)_c$

where a is from about 35 to 50 atomic percent, b is from about 30 to 45 atomic percent, c is from about 18 to 20 atomic percent where a is in the range of about 20 to 65 atomic percent, b is in the range of about 15 to 60 atomic percent, c is in the range of about 16 to 24 atomic percent, wherein Pt and P are each at least about 10 atomic percent of the whole, and where the total of Ni and Co content is at least about 2 atomic percentage;

where PGM is selected from the group consisting of Ir, Os, Au, W, Ru, Rh, Ta, Nb, and Mo;

where TM is selected from the group consisting of Fe, Zn, Ag, Mn, and V; where OM is selected from the group consisting of B, Al, Ga, Ge, Sn, Sb, and As: and

where the x, y, and z fraction follow the following constraints:

z is less that about 0.3,

the sum of x, y, and z is less than about 0.5,

when a is less than about 35, then x is less than about 0.3 and y is less than about 0.1,

when a is in the range of about 35 to 50, then x is from about 0 to 0.1 and y is less than about 0.2, and

when a is more than about 50, then x is from about 0.1 and y is less than about 0.3.

- 26. (Cancelled).
- 27. (Currently Amended) The Pt-based bulk-solidifying amorphous alloy as described in claim 25, wherein a is from about 35 to 50 atomic percent, b is from about 30 to 45 atomic percent, c is from about 18 to 20 atomic percent, x is from about 0 to 0.2, and y is less than about 0.2.
- 28. (Currently Amended) A Pt-based bulk-solidifying amorphous_alloy according to the formula:

 $(Pt_{1-x} Pd_x)_a (Cu_{1-y}(Co,Ni)_y)_b (P_{1-z}Si_z)_c$

where a is in the range of about 35 to 50 atomic percent, b is in the range of about 30 to 45 atomic percent, c is in the range of about 18 to 20 atomic percent where a is in the range of about 20 to 60 atomic percent, b is in the range of about 20 to 60 atomic percent, c is in the range of about 16 to 24 atomic percent, x is in the range of about 0 to 0.8, y is in the range of about 0.05 to 1, and z is in the range of about 0 to 0.4.

- 29. (Currently Amended) The Pt-based bulk-solidifying amorphous alloy as described in claim 28, where a is in the range of about 35 to 50 atomic percent, b is in the range of about 30 to 45 atomic percent, c is in the range of about 18 to 20 atomic percent, x is in the range of about 0 to 0.4, y is in the range of about 0.2 to 0.8, and z is in the range of about 0 to 0.2.
- 30. (Previously Presented) The Pt-based bulk-solidifying amorphous_alloy as described in claim 29, wherein the alloy is Ni free.
- 31. (Currently Amended) A Pt-based <u>bulk solidifying amorphous</u> alloy according to the formula:

Pta(Cu_{1-y}Ni_y)_bPc,

where a is in the range of about 35 to 50 atomic percent, b is in the range of about 30 to 45 atomic percent, c is in the range of about 18 to 20 atomic percent where a is in the range of about 20 to 60 atomic percent, b is in the range of about 20 to 60 atomic percent, c is in the range of about 16 to 24 atomic percent, and y is in the range of about 0.05 to 1.

- 32. (Currently Amended) The Pt-based bulk-solidifying amorphous alloy as described in claim 31, where a is in the range of about 35 to 50 atomic percent, b is in the range of about 30 to 45 atomic percent, c is in the range of about 18 to 20 atomic percent, and y is in the range of about 0.2 to 0.8.
 - 33. (Cancelled)
- 34. (Previously Presented) The Pt-based bulk-solidifying amorphous alloy as described in any of claims 1 and 25 wherein the alloy has a delta T (the supercooled liquid region) of more than 60°C.
 - 35. (Cancelled)
- 36. (Previously Presented) The Pt-based bulk-solidifying amorphous alloy as described in any of claims 1 and 25 wherein the alloy has a hardness of at least 400 Hv.
 - 37. 38. (Cancelled)
- 39. (Previously Presented) The Pt-based bulk-solidifying amorphous alloy as described in any of claims 1 and 25 wherein the alloy has a melting temperature of less than 600°C.

40. (Previously Presented) The Pt-based bulk-solidifying amorphous alloy as described in any of claims 1, and 25 wherein the alloy has a critical casting thickness of more than 5.0 mm.

41. (Cancelled)

42. (Previously Presented) The Pt-based bulk-solidifying amorphous alloy as described in any of claims 1 and 25 wherein the alloy has a resistance to embrittlement during processing above its glass transition temperature.

43. (Cancelled)

44. (Previously Presented) The Pt-based bulk-solidifying amorphous alloy as described in any of claims 1 and 25 wherein the alloy has a maximum flux-processing temperature of less than 800°C to form an amorphous phase having a casting thickness of more than 5 mm.

45. (Cancelled)

- 46. (Previously Presented) The Pt-based bulk-solidifying amorphous alloy as described in any of claims 1 and 25 wherein the alloy has a maximum casting temperature of less than 700°C to form complicated shapes having an amorphous phase.
- 47. (Previously Presented) The Pt-based bulk-solidifying amorphous alloy as described in any of claims 1 and 25 wherein the alloy has a maximum glass transition temperature of less than 250°C.

48. - 65. (Cancelled).